

## **APPENDIX E.**

### **Regional Groundwater Use**

The RMI Plant site is located in eastern part of the City of Ashtabula, approximately one mile south of Lake Erie and immediately south of Fields Brook. Fields Brook is a westerly flowing tributary to the Ashtabula River, which it joins approximately one mile west of the RMI property. The watershed of the Ashtabula River is a primary surface water source to the central basin area of Lake Erie. Within the watershed, the City of Ashtabula is the only major urban center. The remaining parts are dominantly rural and agricultural. In contrast to this wider scale characterization, the areas adjacent to Fields Brook and parallel to the Ashtabula River through the City towards Lake Erie are largely developed and historically industrialized.

Map 1 locates the RMI site on an enlarged portion of the USGS 7.5 Minute Ashtabula North topographic quadrangle map. The map shows that RMI is established on a southwest-to-northeast trending topographic high. The topography of and adjacent to the RMI property shows several north and northwesterly trending surficial swales, lows and/or drainage patterns. Each of these features leads into the course of Fields Brook.

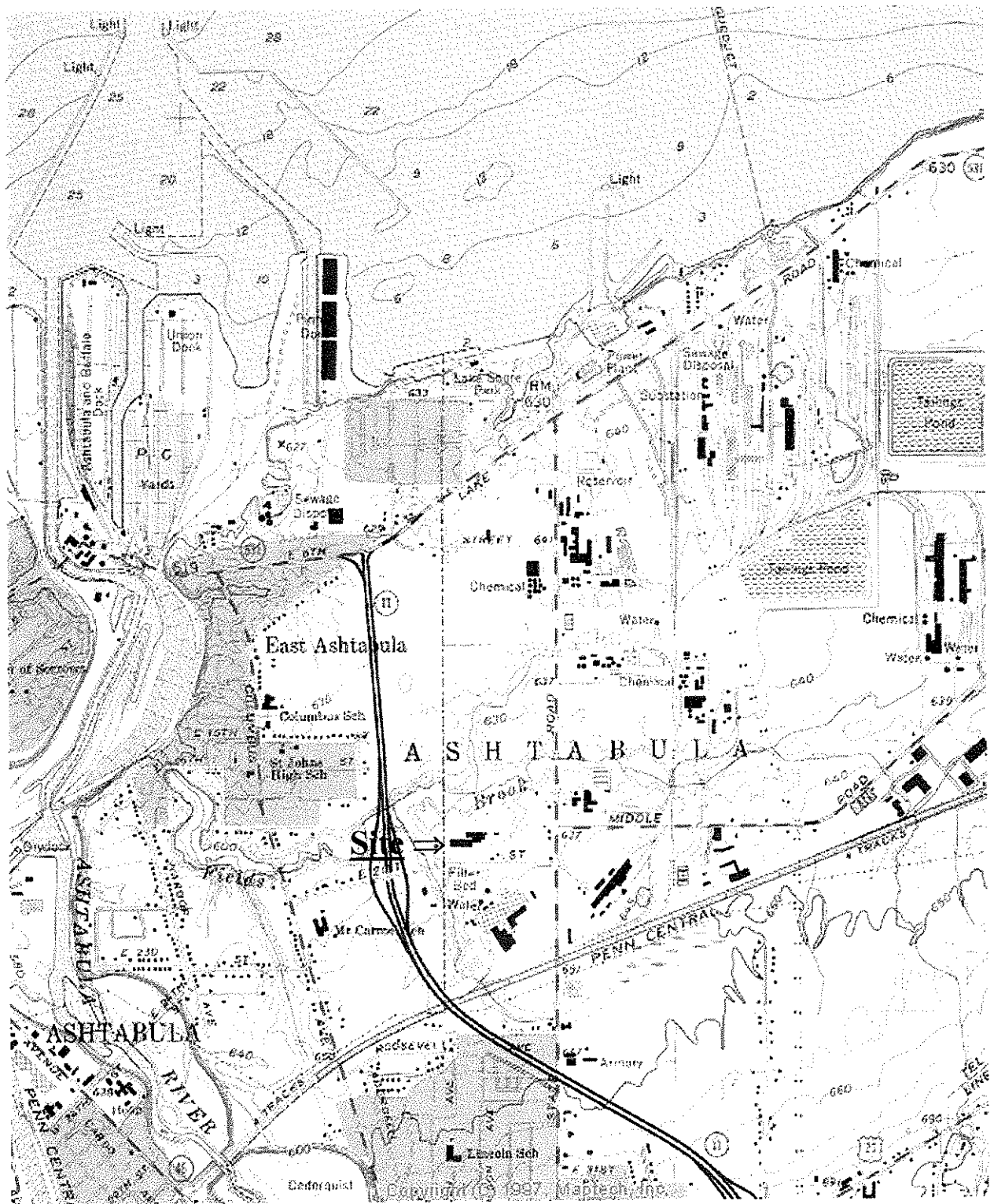
These surface water characteristics are significant as it is surface water that provides the dominant water supply source for the City of Ashtabula, industry and developments in the area. The geology of the region, as discussed in Section 2.1, dominantly consists of very low permeability glacial till(s) that overlie relatively impervious dark shale bedrock. These lithologic and stratigraphic constraints largely prohibit the development of usable groundwater resources. Map 2 is the ODNR Groundwater Resources Map of Ashtabula published by the Division of Water. The map shows that RMI sets within the hydrogeologic area described as being "less than 30 feet of clay and sandy clay overlying shale". Groundwater yields in this area are characteristically < 3 gallons per minute where found along the weathered upper shale bedrock contact with overlying glacial till. This poor groundwater resources area continues throughout all areas downgradient to the RMI site.

To assess the potential for groundwater usage at distance from RMI, the ODNR Division of Water's well files for Ashtabula Township were searched on January 21, 2003 (reference Map 3 and the individual well records contained in Appendix 1). Note that Ashtabula Township includes the City of Ashtabula. In addition to the Division's "located" well records that they post on the base map and highlighted in yellow, they also maintain files of "unlocated" well records. Unlocated wells are those whose address cannot be reliably spotted, or newly drilled wells. SHARP reviewed the "unlocated" well files and tentatively spotted four additional wells onto the Division's map. These tentative wells are posted in blue.

The records for all of the wells posted on Map 3 are included in Appendix 1. These records show that eleven of the twelve "located" wells are completed in shale bedrock and produce at an average rate of 2.4 gallons/minute. This fully agrees with the characterizations presented on the Groundwater Resources Map (Map2). The single located well that is completed in a gravel overlying bedrock is designated #2. This well is located at the far southern border of the township, approximately 3.5 miles from the RMI site.

Summarily:

- the location posting of wells on Map 3 show that there are no reported groundwater wells located within at least a one mile radius of the RMI site,
- the testing and production records for the located wells show that the potential for groundwater usage is low owing to poor production, questionable water quality and discontinuous occurrence of any aquifer, and
- the City of Ashtabula is served by a municipal system that relies on surface water supply from Lake Erie.



**SHARP**  
AND ASSOCIATES, INC.  
982 CLEVELAND AVE  
COLUMBUS, OHIO 43229  
(614) 841-4650 / FAX (614) 841-4660

RMI Extrusion Plant Site  
USGS 7.5 Minute Topographic Map

Map  
1

PROJECT NUMBER  
2116

DATE  
2/13/03

FILE NAME  
Map 1

SCALE  
Not to Scale

### Well Yields

AREAS IN WHICH YIELDS OF LESS THAN 25 GALLONS PER MINUTE CAN BE DEVELOPED



Mississippiian sandstone and sandy shale yield 5 to 15 gpm. Wells drilled in the southern part of the county at higher elevations may yield as much as 15 to 20 gpm at depths up to 150 feet while wells drilled in the fringe area are less than 90 feet deep and yield 5 gpm.

AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE CAN BE DEVELOPED



Unconsolidated deposits less than 50 feet thick, primarily clay and sandy clay with some interbedded lenses of fine sand, sand and gravel overlying shale. Domestic wells in sand and gravel may yield 5 to 10 gpm while wells drilled through clay into the shale yield less than 2 gpm. Screened and/or gravel-packed wells in some isolated thicker sand and gravel deposits may yield up to 25 gpm.

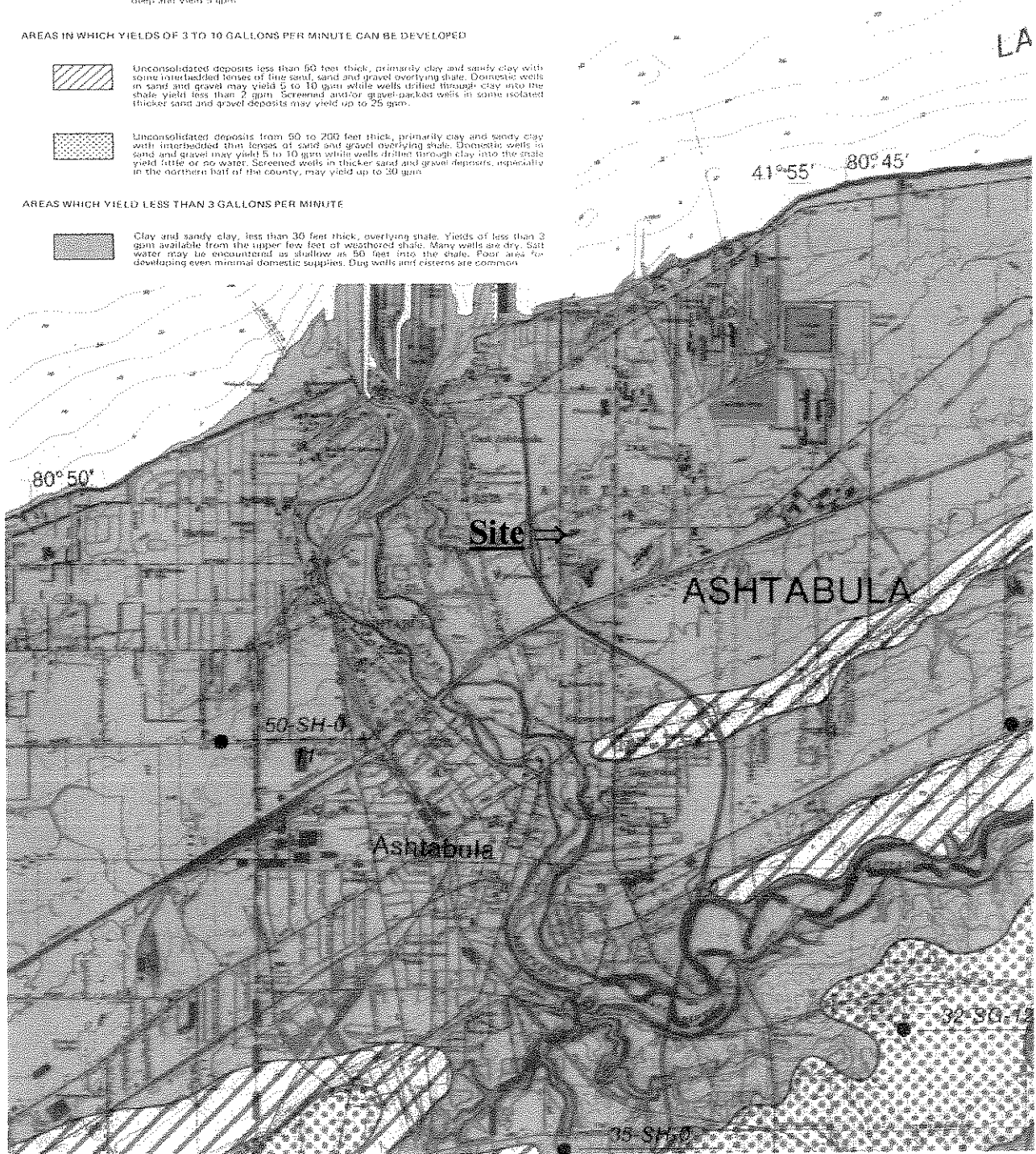


Unconsolidated deposits from 50 to 200 feet thick, primarily clay and sandy clay with interbedded thin lenses of sand and gravel overlying shale. Domestic wells in sand and gravel may yield 5 to 10 gpm while wells drilled through clay into the shale yield little or no water. Screened wells in thicker sand and gravel deposits, especially in the northern half of the county, may yield up to 30 gpm.

AREAS WHICH YIELD LESS THAN 3 GALLONS PER MINUTE



Clay and sandy clay, less than 30 feet thick, overlying shale. Yields of less than 3 gpm available from the upper few feet of weathered shale. Many wells are dry. Salt water may be encountered as shallow as 50 feet into the shale. Poor area for developing even minimal domestic supplies. Dug wells and cisterns are common.



**SHARP**  
AND ASSOCIATES, INC.  
980 CRUICKER AVE.  
COLUMBUS, OHIO 43229  
(614) 841-4650 / FAX (614) 841-4660

### RMI Extrusion Plant Site Groundwater Resource Map

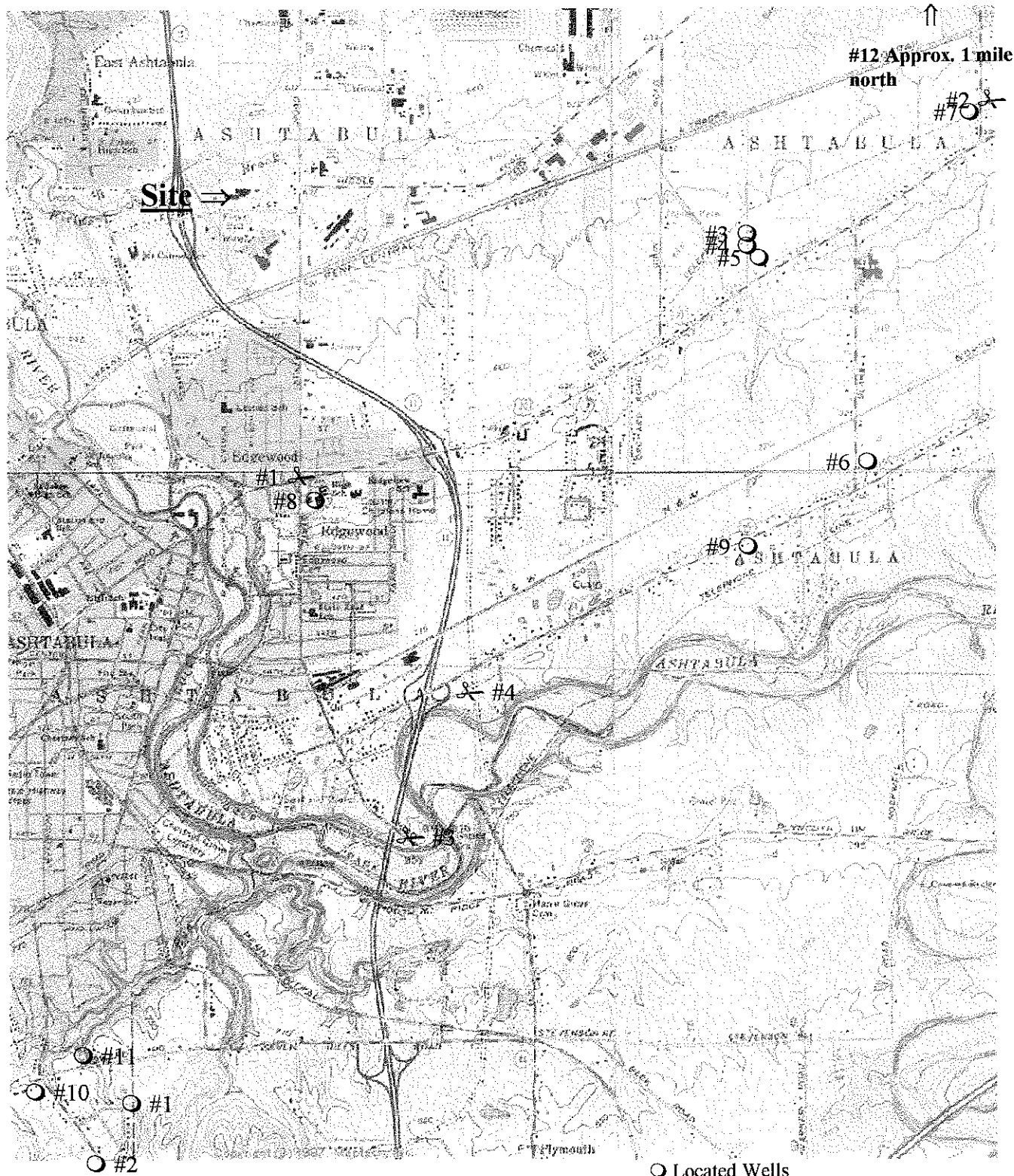
Map  
2

PROJECT NUMBER  
2116

DATE  
2/13/03

FILE NAME  
Map 2

SCALE  
Not to Scale



○ Located Wells

⊗ Located Wells with no boring log

**SHARP**  
AND ASSOCIATES, INC.  
982 CRUPPER AVE.  
COLUMBUS, OHIO 43229  
(614) 841-4650 / FAX (614) 841-4660

RMI Extrusion Plant Site

Water Well Locations

Map

3

PROJECT NUMBER  
2116

DATE  
2/13/03

FILE NAME  
Map 3

SCALE  
Not to Scale





# WE' LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

Nº 309866

County AshTabula Township AshTabula Section of Township.....

Owner Loyd Weaver Address Tillotson RD.

Location of property 1/2 mi. Tillotson RD.

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter <u>6"</u> Length of casing <u>14 1/2"</u>	Pumping Rate <u>3</u> G.P.M. Duration of test..... hrs.
Type of screen..... Length of screen.....	Drawdown..... ft. Date <u>June 30, 1964</u>
Type of pump.....	Static level-depth to water..... ft.
Capacity of pump.....	Quality (clear, cloudy, taste, odor).....
Depth of pump setting.....	
Date of completion.....	Pump installed by.....

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
	0 Feet	<u>8</u> Ft.	<div style="text-align: center;"> </div>
<u>clay</u>	<u>8</u>	<u>27</u>	
<u>shale</u>	<u>27</u>	<u>35</u>	

Drilling Firm MR. PAUL M. GILL Date JUNE 30, 1964  
Address Garrison Rd. Signed PAUL M. GILL

See reverse side for instructions

# WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
65 S. Front St., Rm. 815 Phone (614) 469-2646  
Columbus, Ohio 43215

No. 420870

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_

Owner Martin Higgins Address Zellston Rd.

Location of property 1/2 mile on Zellston Rd in Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 40

Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_

Type of pump \_\_\_\_\_

Capacity of pump \_\_\_\_\_

Depth of pump setting \_\_\_\_\_

Date of completion \_\_\_\_\_

## BAILING OR PUMPING TEST (Specify one by circling)

Test Rate 6 G.P.M. Duration of test \_\_\_\_\_ hrs.

Drawdown \_\_\_\_\_ ft. Date July 10

Static level-depth to water 5 ft.

Quality (clear, cloudy, taste, odor) \_\_\_\_\_

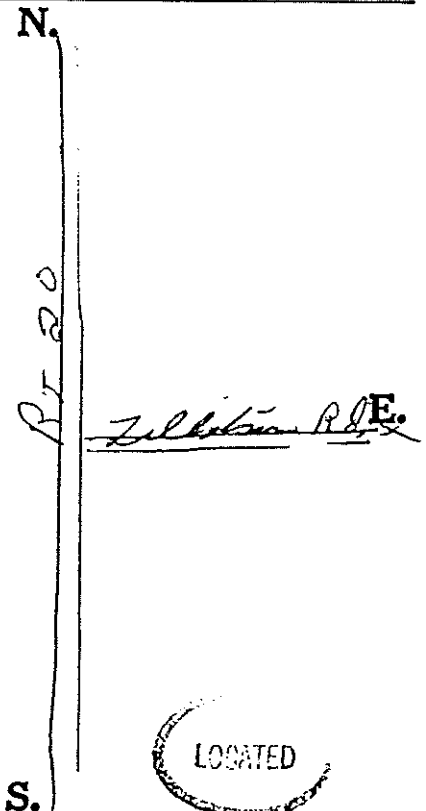
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	35 Ft.
<u>clay</u>	<u>35</u>	<u>5</u>
<u>shale</u>	<u>5</u>	<u>40</u>
<u>water at</u>		
<u>40 ft</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



Drilling Firm Paul E. McMill

Date July 10 - 71

Address East Hogenville Rd.

Signed Paul E. McMill

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER.  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus, Ohio


No. 274785

County ASHTABULA Township Eden Section of Township

Owner DALE C. FLECH Address TILLOTSON RD

Location of property N. 1/4 Sec. 20, T. 2, R. 2

CONSTRUCTION DETAILS		BAILING OR PUMPING TEST	
Casing diameter <u>8"</u>	Length of casing	Pumping rate	G.P.M. Duration of test
Type of screen	Length of screen	Drawdown	ft. Date <u>June 22, 1942</u>
Type of pump		Developed capacity	
Capacity of pump		Static level—depth to water	<u>2 1/2 min</u> ft.
Depth of pump setting		Pump installed by	
Date of completion			

WELL LOG			SKETCH SHOWING LOCATION	
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.	
	0 Feet	<u>10</u> Ft.	<div style="text-align: center;"> N.  <u>TILLOTSON RD.</u>  W. <u>RT 20</u> E.  S. </div>	
<u>CLAY</u>	<u>10</u>	<u>25</u>		
<u>SHALE</u>	<u>25</u>	<u>35</u>		
<u>WATER</u>				
			<div style="text-align: center;">  </div>	
			<div style="text-align: center;"> S.  See reverse side for instructions </div>	

Driiling Firm Mr. Y. J. [unclear]

Date 23, 1942

Address Garrison [unclear]

Signed Mr. Y. J. [unclear]

## ORIGINAL

Nº 374407

1562 W. First Avenue  
Columbus, Ohio 43212

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_  
 Owner Larry Bucci Address Blake Rd, Ashtabula, O.  
 Location of property Blake Rd., 1/4 mi. N. of Rt. 84

### BAILING OR PUMPING TEST

Pump installed by \_\_\_\_\_

SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.

W.

**F.**

LOSTER

**S.**

See reverse side for instructions

Signed Harold L. Luman

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WEI' LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue.  
Columbus 12, Ohio

Nº 284603

County Ashtabula Township Ashtabula Section of Township

Owner David S. Snyder Address

Location of property on west side of S. 11 Rd

## CONSTRUCTION DETAILS

Casing diameter 2" Length of casing 19'4"  
Type of screen Length of screen  
Type of pump  
Capacity of pump  
Depth of pump setting  
Date of completion

## BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.  
Drawdown ft. Date  
Static level-depth to water ft.  
Quality (clear, cloudy, taste, odor)  
Pump installed by

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	14 Ft.
Shale	14	30
WATER		
25 ft		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.  
S. 11 Rd.  
X  
W. E.  
R.T. 20



S.

See reverse side for instructions

Drilling Firm Paul M. Gill  
Address FD#2 Ashtabula, Ohio

Date Aug. 20, 1962  
Signed Paul M. Gill

## WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER.  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus, Ohio

No. 241682

County Ashtabula Township Ashtabula Section of Township 4  
Owner Gale Myers Address Eureka Rd.  
Location of property 1/2 mile south on Eureka Rd.

## CONSTRUCTION DETAILS

Casing diameter 5 1/4 Length of casing 17'  
Type of screen..... Length of screen.....  
Type of pump.....  
Capacity of pump.....  
Depth of pump setting.....  
Date of completion.....

## BAILING OR PUMPING TEST

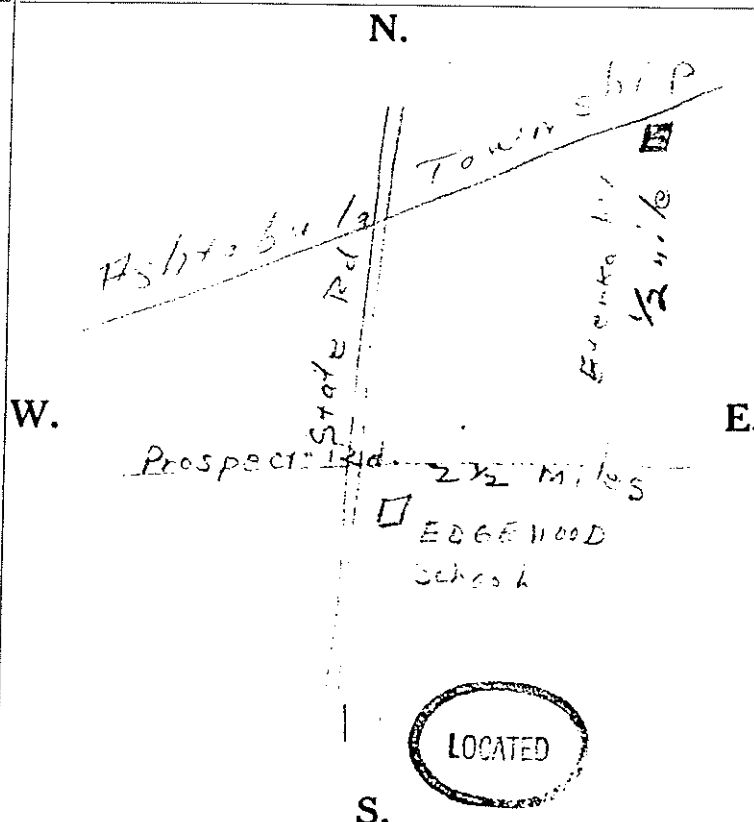
Pumping rate 60 G.P.H. Duration of test 7 hrs.  
Drawdown..... ft. Date 8/24/59  
Developed capacity.....  
Static level—depth to water..... ft.  
Pump installed by.....

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>BLUE CLAY</u>	<u>0 Feet</u>	<u>15 Ft.</u>
<u>SHALE</u>	<u>15'</u>	<u>83'</u>
<u>WATER WT</u>		
<u>3 Feet.</u>		
<u>SALT</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm PAUL E. MCGILL  
Address R#2 Garrison Rd.  
Ashtabula

Date 8/24/59  
Signed Paul E. McGill

# WEI' LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

Nº 295286

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_  
Owner Walter Champion Address 5933 Washington Blvd., Ashtabula, Ohio  
Location of property Rt. 84, 2 mi. E. of State Rd.

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter <u>6 O.D.</u> Length of casing <u>61</u>	Pumping Rate <u>4</u> G.P.M. Duration of test _____ hrs.
Type of screen _____ Length of screen _____	Drawdown <u>28</u> ft. Date <u>5-16-63</u>
Type of pump _____	Static level-depth to water <u>47</u> ft.
Capacity of pump _____	Quality (clear, cloudy, taste, odor) <u>good, clear</u>
Depth of pump setting _____	Pump installed by _____
Date of completion <u>5-16-63</u>	

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
<u>clay + sand</u>	0 Feet	<u>49</u> Ft.	<u>Ashtabula</u> N.
<u>gravel</u>	<u>49</u>	<u>52</u>	<u>State Rd.</u>
<u>clay</u>	<u>52</u>	<u>59</u>	<u>State Rd.</u>
<u>shale</u>	<u>59</u>	<u>75</u>	<u>State Rd.</u>
			W. <u>Rt. 84</u> X E.
			S.
			See reverse side for instructions

Drilling Firm HAROLD INMAN  
Address WELL DRILLING  
RT. 2-JEFFERSON, OHIO

Date 12-11-63  
Signed H. Inman

WELL LOG

REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

or Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

No 292538

County Ashtabula Township Ashtabula Section of Township 1  
Owner J. E. Quinn Address 1100 W. Howard Rd. Ashtabula  
Location of property 1100 W. Howard Rd. Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 7.5 Length of casing 19  
Type of screen 1/2" mesh Length of screen 19  
Type of pump 1/2" mesh  
Capacity of pump 1/2" mesh  
Depth of pump setting 1100 W. Rd.  
Date of completion Nov. 15, 62

## BAILING OR PUMPING TEST

Pumping Rate 2 G.P.M. Duration of test 1 hrs.  
Drawdown 4.1 ft. Date Nov. 15, 62  
Static level-depth to water 8 1/2 ft.  
Quality (clear, cloudy, taste, odor) clear  
Pump installed by 1100 W. Rd.

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>gravelly sand</u> <u>shale</u>	<u>0 Feet</u>	<u>50 Ft.</u>

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N. W.

W. S.

Howard Rd.

E. N.

LOCATED

S. E.

See reverse side for instructions

Drilling Firm HAROLD INMANWELL DRILLINGAddress 61 E. JEFFERSON, OHIODate 11/15/62Signed Harold Inman

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

No 292523

County Adams Township Adams Section of Township 1  
Owner William M. Mullen Address Howard Rd, Adams  
Location of property Howard Rd. 75 E of Pt. 46

## CONSTRUCTION DETAILS

Casing diameter 6 1/2 Length of casing 25 1/2  
Type of screen                      Length of screen                       
Type of pump                       
Capacity of pump                       
Depth of pump setting                       
Date of completion 10-16-62

## BAILING OR PUMPING TEST

Pumping Rate 1/2 G.P.M. Duration of test 1 hrs.  
Drawdown 27 ft. Date 10-16-62  
Static level-depth to water 29 ft.  
Quality (clear, cloudy, taste, odor) clear  
Pump installed by                     

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>                    </u>	0 Feet	<u>                    </u> Ft.
<u>                    </u>	<u>16</u>	<u>17</u>
<u>                    </u>	<u>18</u>	<u>21</u>
<u>                    </u>	<u>21</u>	<u>26</u>

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N. E.  
Howard Rd  
W. 11  
S. E.  
Rt. 46  
LOCATED  
S. W.  
See reverse side for instructions

Drilling Firm HAROLD INMAN  
WELL DRILLING  
Address RT. 2 JEFFERSON, OHIO

Date 1/24/63  
Signed Harold Inman

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus, Ohio 43212

Nº 347752

DO NOT USE INK.

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_  
Owner Robert Fairburn Address 4815 Lake Rd. East, Ashtabula  
Location of property Lake Rd., 2 mi. E. of State Rd.

## CONSTRUCTION DETAILS

Casing diameter 6" O.D. Length of casing 65'  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion 9-17-65

## BAILING OR PUMPING TEST

Pumping Rate 10 G.P.M. Duration of test 8 hrs.  
Drawdown 170 ft. Date 9-17-65  
Static level-depth to water 30 ft.  
Quality (clear, cloudy, taste, odor) salty  
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations  
Sandstone, shale, limestone,  
gravel and clay

From

To

clay

0 Feet

60 Ft.

shale

60

200

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.

Lake Rd.

Lake Rd. X

W.

E.

State Rd.



S.

See reverse side for instructions

Drilling Firm HAROLD INMAN

Date \_\_\_\_\_

Address WELL DRILLING  
RT. 2-JEFFERSON, OHIO

Signed Harold Inman

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
P.L.F. TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
65 S. Front St., Rm. 815 Phone (614) 469-2646  
Columbus, Ohio 43215

433777

County Ashtabula Township Whitaker Section of Township \_\_\_\_\_

Owner Westlake Address \_\_\_\_\_

Location of property 1/2 mile on Jolieton in Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 6 Length of casing 14  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion \_\_\_\_\_

## BAILING OR PUMPING TEST (Specify one by circling)

Test Rate 1/2 G.P.M. Duration of test \_\_\_\_\_ hrs  
Drawdown \_\_\_\_\_ ft. Date Aug 28-72  
Static level-depth to water 20 ft.  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	11 Ft.
<u>clay</u>	<u>11</u>	<u>29</u>
	<u>29</u>	<u>40</u>
<u>water</u>		
<u>40 ft</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.  
W. Jolieton E.  
S.

Drilling Firm Paul C McMill Date Aug 28-72  
Address East Mayville Rd. Signed Paul C McMill

\*If additional space is needed to complete well log, use next consecutive numbered form.

## ORIGINAL

Nº 361533

State of Ohio

## Division of Water

1562 W. First Avenue

Columbus, Ohio 43212

County Ashtabula Township Ashtabula Section of Township           

Owner James Griswold Address 835 W. 48<sup>th</sup>, Aptakuba C.

Location of property Manwood Pk. 1/2 mi. N. of Edison Rd.

## CONSTRUCTION DETAILS

Casing diameter 6" O.D. Length of casing 57'

Type of screen.....Length of screen.....

Type of pump.....

Capacity of pump.....

Depth of pump setting.....

Date of completion..... 9-9-66

### BAILING OR PUMPING TEST

Pumping Rate 4 G.P.M. Duration of test 1 1/2 hrs.

Drawdown 45 ft. Date 9-9-66

Static level-depth to water.....35.....ft.

Quality (clear, cloudy, taste, odor) clear

Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations  
Sandstone, shale, limestone,  
gravel and clay

From

To

0 Feet	14 Ft.
--------	--------

14	20
----	----

20	35
----	----

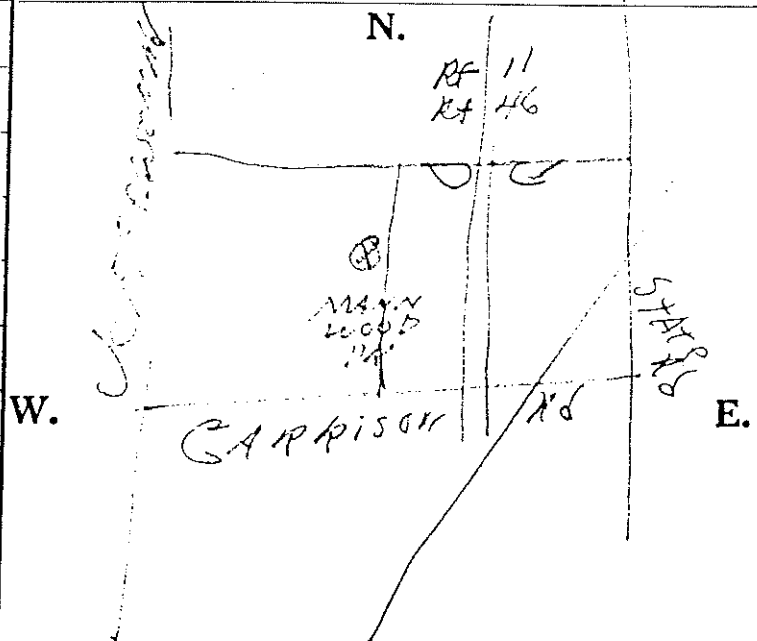
38	45
----	----

45 | 51

51	80
----	----

SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



**S.**

See reverse side for instructions

Drilling Firm ..... HAROLD INMAN  
WELL DRILLING

Address RT. 2-JEFFERSON, OHIO

Date 2-23-67

Signed James H. McLaughlin

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus, Ohio 43212

Nº 335022

County Ashtabula Township Ashtabula Section of Township 5-C1

Owner MR. Ray Cortright Address 2003 Rt 175

Location of property 3 mi. E. of Ashtabula on Ohio Rd West

## CONSTRUCTION DETAILS

Casing diameter 5" Length of casing 30 1/2'  
Type of screen 40 mesh Length of screen 10'  
Type of pump Small well  
Capacity of pump                       
Depth of pump setting                       
Date of completion Aug 10, 1945

## BAILING OR PUMPING TEST

Pumping Rate 2 G.P.M. Duration of test 1 hrs.  
Drawdown                      ft. Date Aug 10, 1945  
Static level-depth to water 8 ft.  
Quality (clear, cloudy, taste, odor)                       
Pump installed by                     

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	28 Ft.
<u>Sandstone</u>	<u>28</u>	<u>10</u>
<u>Shale</u>	<u>10</u>	<u>5</u>
<u>Water at</u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		
<u>                    </u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.  
W.  
E.  
S.  
COOK RD.

See reverse side for instructions

Drilling Firm Edwards & Kelly

Date Aug 10, 1945

Address COLUMBUS, OHIO 43212

Signed MR. R. L. KELLY

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
65 S. Front St., Rm. 815 Phone (614) 469-2646  
Columbus, Ohio 43215

No. 402759

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_

Owner Edward J. Miller Address on 46

Location of property 1/2 mi. S. on Columbus Rd. East side of 46

## CONSTRUCTION DETAILS

Casing diameter 6 Length of casing 49

Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_

Type of pump \_\_\_\_\_

Capacity of pump \_\_\_\_\_

Depth of pump setting \_\_\_\_\_

Date of completion May 15 - 70

## BAILING OR PUMPING TEST (Specify one by circling)

Test Rate 7 G.P.M. Duration of test \_\_\_\_\_ hrs.

Drawdown \_\_\_\_\_ ft. Date May 15 - 70

Static level-depth to water 150 ft.

Quality (clear, cloudy, taste, odor) \_\_\_\_\_

Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations  
Sandstone, shale, limestone,  
gravel and clay

From

To

0 Feet

46 Ft.

0-46

Sand

46

24

46-70

shale

24

70

water  
at 70 ft

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.

W.

E.

on 46 x

S.

Drilling Firm Paul E. McMill

Date May 15 - 70

Address East Hagenville Rd

Signed Paul E. McMill

\*If additional space is needed to complete well log, use next consecutive numbered form.

## WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER.  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES

Division of Water  
1562 W. First Avenue  
Columbus, Ohio

No. 274774

County ASHTABULA Township Edgewood Section of Township 3-C

Owner Bill Rogers Address PILLITSON Rd

Location of property PILLITSON - Rd in Edgewood North

## CONSTRUCTION DETAILS

Casing diameter 6" Length of casing.....  
Type of screen..... Length of screen.....  
Type of pump.....  
Capacity of pump.....  
Depth of pump setting.....  
Date of completion.....

## BAILING OR PUMPING TEST

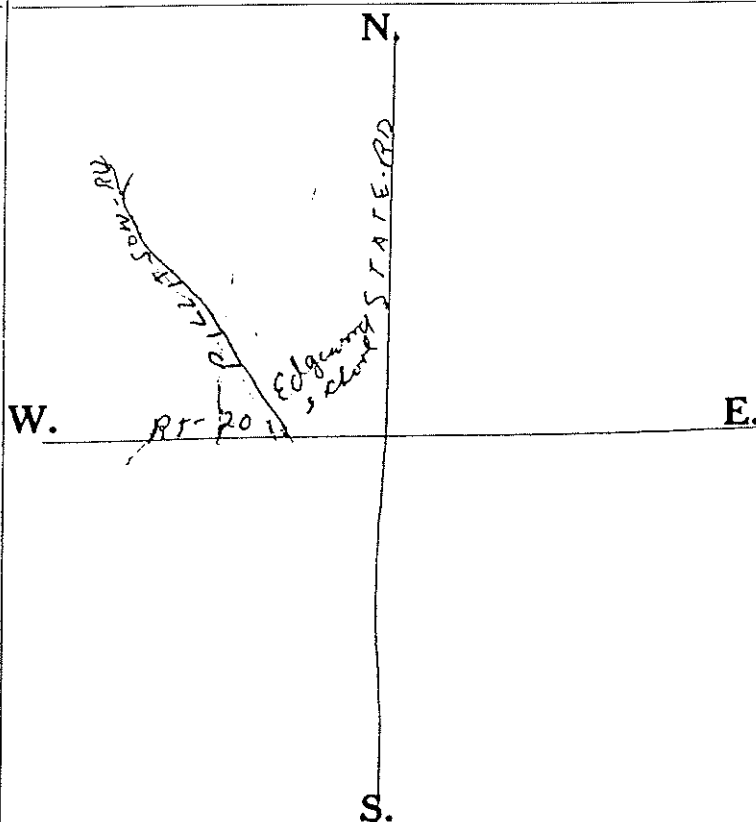
Pumping rate..... G.P.M. Duration of test..... hrs.  
Drawdown..... ft. Date.....  
Developed capacity.....  
Static level—depth to water 2.96 ft. min ft.  
Pump installed by.....

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	<u>8</u> Ft.
<u>CLAY</u>	<u>8</u>	<u>16</u>
<u>SHALE</u>	<u>16</u>	<u>35</u>
<u>WATER</u> <u>AT</u> <u>35 ft</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm PAUL E. Mc MILL Date MAY-26-62  
Address R.F.D. 2 ASHTABULA Signed PAUL E. Mc MILL

①

## ORIGINAL

Nº 347823

Division of Water

1562 W. First Avenue

Columbus, Ohio 43212

County Ashtabula Township Ashtabula Section of Township         
Owner Ed Tuller (Bldrs) Address Pt. 3, Austinsburg Rd, Litchfield, C.  
Location of property Pt. 84, 1/2 mi. E. of - Pt. 3 - (Pt. 4, Sub. 1st)

## CONSTRUCTION DETAILS

Casing diameter 6 1/2 Length of casing 48  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion 5-9-66

### BAILING OR PUMPING TEST

Pumping Rate 3 G.P.M. Duration of test 2 hrs.  
 Drawdown 45 ft. Date 5-9-66  
 Static level-depth to water 45 ft.  
 Quality (clear, cloudy, taste, odor) clear,  
good  
 Pump installed by \_\_\_\_\_

## WELL LOG\*

SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.

W.

**E.**

**S.**

See reverse side for instructions

Drilling Firm HAROLD INMAN  
WELL DRILLING  
Address RT. 2-JEFFERSON, OHIO

Date 2-4-67  
Signed [Signature]

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES

Nº 335029

**DO NOT USE INK.**

Division of Water  
1562 W. First Avenue  
Columbus, Ohio 43212

County Ashtabula Township Ashtabula Section of Township 41-22

Owner MR. F. J. Kelly Address Austintown, OH

Location of property Ashtabula Co. 41-22-23 *from where?*

## CONSTRUCTION DETAILS

Casing diameter 2 1/4" Length of casing 94'  
Type of screen none Length of screen \_\_\_\_\_  
Type of pump small well  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion Sept 22, 1971

## BAILING OR PUMPING TEST

Pumping Rate 5 G.P.M. Duration of test 3.00 hrs.  
Drawdown \_\_\_\_\_ ft. Date Sept 22, 1971  
Static level-depth to water \_\_\_\_\_ ft.  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	50 Ft.
<u>Sandstone</u>	<u>50</u>	<u>213</u>
<u>Shale</u>	<u>22</u>	<u>713</u>
<u>water at 713'</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.

W. Austintown, OH E.

S.

See reverse side for instructions

Drilling Firm MR. F. J. Kelly

Date Sept 22, 1971

Address Ashtabula Co. 41-22-23

Signed MR. F. J. Kelly

If additional space is needed to complete well log, use next consecutive numbered form.

## WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Columbus, Ohio

N<sup>o</sup> 170122

County Asa. Township Asa. Section of Township  
or Lot Number

Owner Burnie Baker Address Ashtabula R.R.

Location of property Rt 46 1/2 mi S. of Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 6" O.D. Length of casing 58  
Type of screen Length of screen  
Type of pump  
Capacity of pump  
Depth of pump setting

## PUMPING TEST

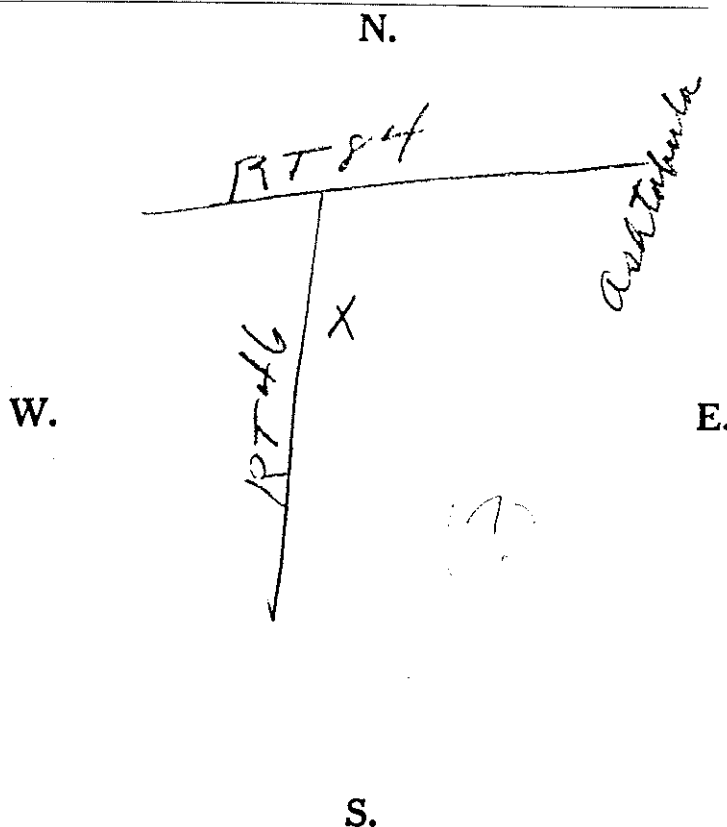
Pumping rate G.P.M. Duration of test hrs.  
Drawdown ft. Date  
Developed capacity 300 G.P.M.  
Static level—depth to water 41 ft.  
Pump installed by

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	<u>40</u> Ft.
<u>CLAY</u>		
<u>sand</u>	<u>40</u>	<u>50</u>
<u>gravel</u>	<u>50</u>	<u>54</u>
<u>clay</u>	<u>54</u>	<u>56</u>
<u>gravel</u>	<u>56</u>	<u>58</u>

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm HAROLD INMAN  
WELL DRILLING  
Address RT. 2 JEFFERSON, OHIO

Date 1/16/58  
Signed Harold Inman

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

Nº 309878

County Ash-ta-bu-la Township Ash-ta-bu-la Section of Township Ash-t

Owner Grimsley Address Jefferson RD. Box 1

Location of property South of Ash-ta-bu-la on Jefferson RD. 1/2 m.

## CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 18"  
Type of screen..... Length of screen.....  
Type of pump.....  
Capacity of pump.....  
Depth of pump setting.....  
Date of completion.....

## BAILING OR PUMPING TEST

Pumping Rate 3 G.P.M. Duration of test..... hrs.  
Drawdown..... ft. Date July 31, 1964  
Static level-depth to water..... ft.  
Quality (clear, cloudy, taste, odor).....  
Pump installed by.....

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	.....Ft.
clay	14	21
shale	21	35
water 30 ft.		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.  
Jefferson RD.  
W. E.  
S.

See reverse side for instructions

Drilling Firm Paul M. McMill

Address Barrison RD.

Date July 31, 1964

Signed Paul M. McMill

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

N<sup>o</sup> 309856

County Ashtabula Township Edinboro Section of Township 7  
Owner James Baker Address Nelson Rd. of the St  
Location of property Quarter of a mile on the West Side

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter <u>6"</u> Length of casing <u>16"</u>	Pumping Rate.....G.P.M. Duration of test.....hrs.
Type of screen..... Length of screen.....	Drawdown.....ft. Date.....
Type of pump.....	Static level-depth to water.....ft.
Capacity of pump.....	Quality (clear, cloudy, taste, odor).....
Depth of pump setting.....	
Date of completion.....	Pump installed by.....

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	<p>Locate in reference to numbered State Highways, St. Intersections, County roads, etc.</p> <div style="text-align: center;"> <p>N.</p> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Kaiser</p> </div> <p>W. <span style="margin-left: 50px;">E.</span></p> <p style="text-align: center;">S.</p> </div>
<p style="font-size: 2em; text-align: center;">Clay</p> <p style="font-size: 2em; text-align: center;">Rock</p> <p style="font-size: 2em; text-align: center;">water at 30 ft</p>	<p>0 Feet</p> <p style="text-align: center;">7</p>	<p>.....Ft.</p> <p style="text-align: center;">30</p>	

See reverse side for instructions

Drilling Firm Paul E. McEille Date Apr. 2. 1964  
Address R. D. # 2 Ashtabula Signed Paul E. McEille

# WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL  
OR TYPEWRITER  
DO NOT USE INK.

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1562 W. First Avenue  
Columbus 12, Ohio

Nº 284649

County Franklin Township Edgewood Section of Township

Owner Howard D. Permon Address North Ridge East

Location of property

## CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 7.5"  
Type of screen S Length of screen  
Type of pump  
Capacity of pump  
Depth of pump setting  
Date of completion

## BAILING OR PUMPING TEST

Pumping Rate.....G.P.M. Duration of test.....hrs.  
Drawdown.....ft. Date.....  
Static level-depth to water.....ft.  
Quality (clear, cloudy, taste, odor).....  
Pump installed by.....

## WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	.....Ft.
<u>lay</u>		<u>29</u>
<u>rock</u>	<u>29</u>	<u>36</u>
<u>water</u>		
<u>at</u>		
<u>36 ft</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.

N.  
North Ridge  
W. EAST E.  
S.

See reverse side for instructions

Drilling Firm MR. PAUL M. ELLI

Address Garrison Road RFD2

Date JULY 8, 1963

Signed MR. Paul M. Elli

# WELL LOG AND DRILLING REPORT

695236

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
1939 Fountain Square Drive  
Columbus, Ohio 43224  
(614) 265-6739

TYPE OR USE PEN  
SELF-TRANSCRIBING  
PRESS HARD!

Permit Number 84-91

COUNTY AshTabula TOWNSHIP AshTabula

SECTION/LOT NO.  
(CIRCLE ONE)

OWNER/BUILDER Jerry Renaud PROPERTY ADDRESS 932 Zema Drive, AshTabula  
(CIRCLE ONE OR BOTH) (ADDRESS OF WELL LOCATION)

LOCATION OF PROPERTY West side - 1/8 mile W. of CRISTAL Springs

## CONSTRUCTION DETAILS

### CASING

Diameter 8 5/8 in. Length 27 ft. Wall Thickness 2 1/8 in.

Type: ☒ Steel ☐ Galv. ☐ PVC ☐ Other

Joints: ☐ Threaded ☒ Welded ☐ Solvent ☐ Other

### SCREEN

Type (wire wrapped, louvered, etc.) \_\_\_\_\_ Material \_\_\_\_\_

Length \_\_\_\_\_ ft. Diameter \_\_\_\_\_ in.

Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft. Slot \_\_\_\_\_

☐ Rotary ☒ Cable ☐ Augered ☐ Driven ☐ Dug ☐ Other

Date of completion July 9 1991

### GROUT

Material \_\_\_\_\_ Volume used \_\_\_\_\_

Method of installation \_\_\_\_\_

Depth: placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

### GRAVEL PACK

Material \_\_\_\_\_ Volume used \_\_\_\_\_

Method of installation \_\_\_\_\_

Depth: placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Pitless Device ☒ Adapter ☐ Preassembled unit

Use of Well Home

### PUMP

Type of pump \_\_\_\_\_ Capacity \_\_\_\_\_ gpm

Pump set at \_\_\_\_\_ ft.

Pump installed by \_\_\_\_\_

### WELL TEST

Bailing ☒ or Pumping ☐

Test rate 9 gpm Duration of test 1 hrs.

Drawdown 17 ft.

Measured from: ☒ Top of casing ☐ ground level ☐ Other

Static Level (depth to water) 17 ft. Date: 7-9-91

Quality (clear, cloudy, taste, odor) cloudy

(Attach a copy of the pumping test record, per 1521.05, ORC)

### WELL LOG\*

STATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

color, texture, hardness, and formation:

sandstone, shale, limestone, gravel, clay, sand, etc.

From

To

Brown Clay

0 ft.

15 ft.

Gray Clay

15

20

Gravel

20

22

Gray shale

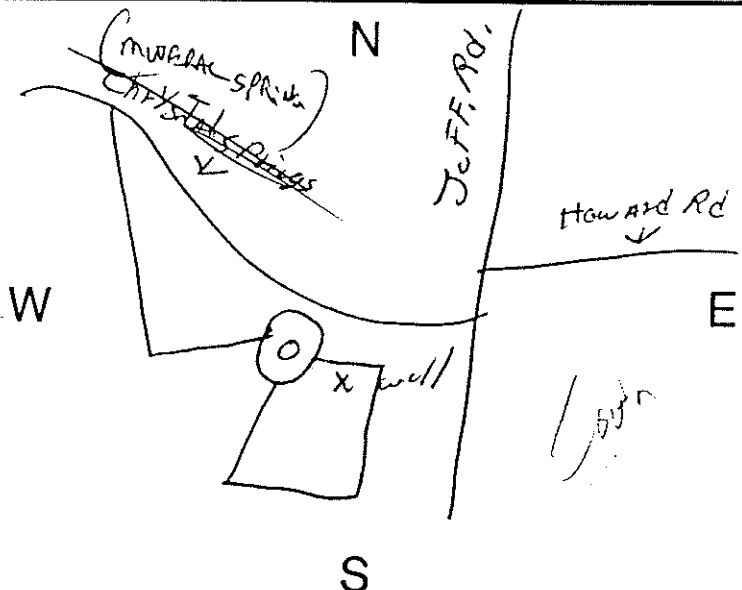
22

34

Water at 22'

### SKETCH SHOWING LOCATION

Show distances well lies from numbered  
state highways, street intersections, county roads, etc.



\*Additional space is needed to complete well log, use next consecutively numbered form

DNR 780:

Drilling Firm L L Hall well Drilling

Address RD #1

City, State, Zip SAEGERTOWN, PA 16433

SIGNED

DATE

ODH REGISTRATION NUMBER

Lorenz L. Hall

July 9 1991

1513

Completion of this form is required by 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.  
ORIGINAL COPY - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224

ORIGINAL

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Fountain Square  
Columbus, Ohio 43224

574942

COUNTY Ashtabula TOWNSHIP Ashtabula SECTION OF TOWNSHIP \_\_\_\_\_  
OWNER John William Morrison ADDRESS 5915 So. Woodmen Ave, Ashtabula  
LOCATION OF PROPERTY West side Woodmen Ave, - 3/4 mi. South. of Rt. 20

[illegible]

DATE June 10, 1981  
SIGNED Hewitt Fredsbaugh Jr. (RJ)

\*If additional space is needed to complete well log, use next consecutive numbered form.

NO CARBON PAPER  
NECESSARY -  
SELF-TRANSCRIBING

624665

## CONSTRUCTION DETAILS

(specify one by circling)

Test rate 1 gpm Duration of test 24 hrs  
Drawdown \_\_\_\_\_ ft Date 1 Sept 89  
Static level (depth to water) 16' ft  
Quality (clear, cloudy, taste, odor) Clear  
\_\_\_\_\_  
Pump installed by Travis Water Service

**SKETCH SHOWING LOCATION**

Locate in reference to numbered  
state highways, street intersections, county roads, etc.

**N**

**W**

# E

Hand-drawn map showing the intersection of a vertical road and a horizontal road. The vertical road is labeled "S. Well" and the horizontal road is labeled "Rail Rd.". The intersection is marked with a cross. Below the intersection, the text "RT 20" is written.

Compare to Located #7

**S**

DRILLING FIRM FRED'S WATER SERVICE DATE 2 SEPT 89  
ADDRESS 2638 Townline Rd Madison SIGNED Fred Schreiber

\*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL COPY - SEND DIVISION OF WATER CONTAINING TO THE MAIN 1999A

2

NO CARBON PAPER  
NECESSARY-  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Fountain Square  
Columbus, Ohio 43224

626858

COUNTY La. uia TOWNSHIP La. uia SECTION OF TOWNSHIP \_\_\_\_\_  
OWNER \_\_\_\_\_ ADDRESS La. uia  
LOCATION OF PROPERTY La. uia

[illegible]

DRILLING FIRM \_\_\_\_\_

DATE \_\_\_\_\_

ADDRESS 214 S. 2nd St.

**SIGNED**

\*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL COPY: OROND DIVISION OF WATER, FOUNTAIN CO. 2012 JUL 10 1000

# WELL LOG AND DRILLING REPORT

668198

NO CARBON PAPER  
NECESSARY-  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Fountain Square  
Columbus, Ohio 43224

Permit Number \_\_\_\_\_

COUNTY Delaware TOWNSHIP Delaware SECTION OF TOWNSHIP \_\_\_\_\_

OWNER Harold Inman ADDRESS 1215 S. R. 307

LOCATION OF PROPERTY 1215 S. R. 307

## CONSTRUCTION DETAILS

Casing diameter 1 1/4 Length of casing 22  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion May 13/88  
Rotary ☒ or Cable ☐

## BAILING OR PUMPING TEST

(specify one by circling)

Test rate 1 gpm Duration of test \_\_\_\_\_ hrs  
Drawdown 75 ft Date 5/13/88  
Static level (depth to water) 10 ft  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_

## WELL LOG\*

## SKETCH SHOWING LOCATION

Formations: sandstone, shale,  
limestone, gravel, clay

From

To

0 ft

22 ft

22

85

Locate in reference to numbered  
state highways, street intersections, county roads, etc.

N

W

E

S

Additional space is needed to complete well log, use next consecutively numbered form.

DRILLING FIRM HAROLD INMAN WELL DRILLING REGISTRATION NUMBER 1215

DATE 5/13/88

ADDRESS 1215 S. R. 307 SIGNED Harold Inman

Completion of this form is required by 1521.05, Ohio Revised Code - file within 30 days after completion.

WHITE ORIGINAL COPY - ODNR, DIVISION OF WATER, FOUNTAIN SQ., COLS., OHIO 43224 / Blue - Customer's Copy / Pink - Driller's Copy / Green - Local Health Dept. Copy

5-152

(3)

# WELL LOG AND DRILLING REPORT

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Fountain Square  
Columbus, Ohio 43224

635080

COUNTY Ashtabula TOWNSHIP Ashtabula SECTION OF TOWNSHIP \_\_\_\_\_  
OWNER Bnd Hill ADDRESS Rt. 841 Ashtabula  
LOCATION OF PROPERTY 5.14. 70 1/2 mile East of Hill

## CONSTRUCTION DETAILS

## BAILING OR PUMPING TEST

(specify one by circling)

Casing diameter <u>1 1/4</u> Length of casing <u>44</u>	Test rate <u>2</u> gpm Duration of test <u>1</u> hrs
Type of screen _____ Length of screen _____	Drawdown _____ ft Date <u>Oct. 21, 1988</u>
Type of pump _____	Static level (depth to water) <u>15</u> ft
Capacity of pump _____	Quality (clear, cloudy, taste, odor) <u>good</u>
Depth of pump setting _____	Pump installed by _____
Date of completion <u>Oct 21, 88</u>	

## WELL LOG\*

## SKETCH SHOWING LOCATION

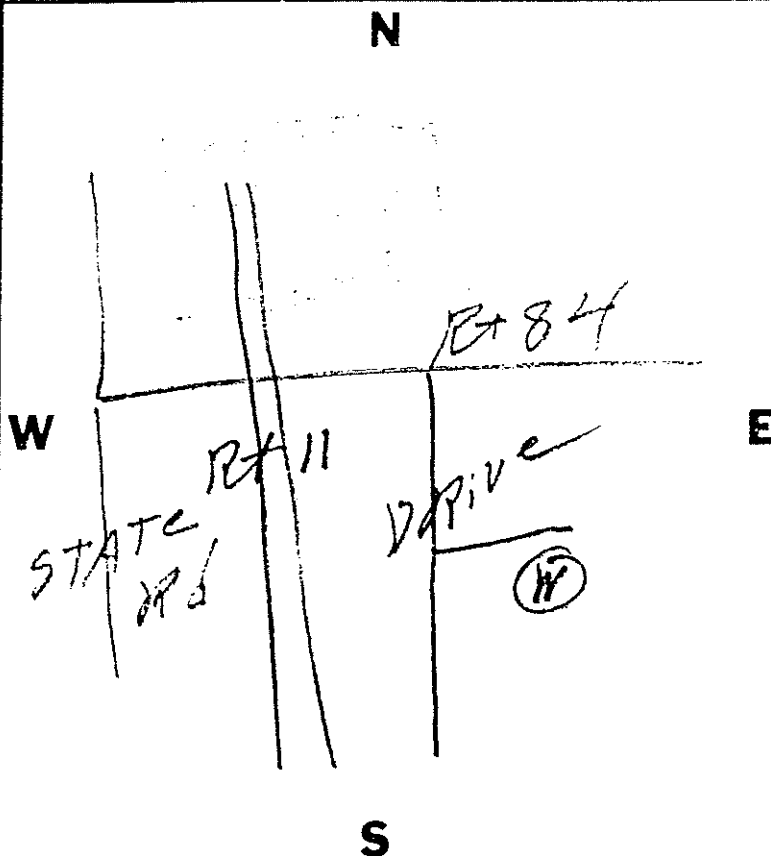
Formations: sandstone, shale,  
limestone, gravel, clay

From

To

Locate in reference to numbered  
state highways, street intersections, county roads, etc.

<u>Clay</u>	0 ft	38 ft	
<u>sand &amp; gravel</u>	38	41	
<u>shale</u>	41	60	



DRILLING FIRM HAROLD INMAN WELL DRILLING  
911 S. R. 607 East  
ADDRESS Jefferson, Ohio 44047

DATE Nov. 1, 1988  
SIGNED Harold Inman

\*If additional space is needed to complete well log, use next consecutive numbered form.

County Permit No. \_\_\_\_\_

**WELL LOG AND DRILLING REPORT**

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBINGState of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
Fountain Square  
Columbus, Ohio 43224

547006

COUNTY Ashtabula TOWNSHIP Ashtabula SECTION OF TOWNSHIP \_\_\_\_\_  
OWNER Lynn A. Randolph ADDRESS Piney Rd - 3470  
LOCATION OF PROPERTY 1/2 mile on Piney Rd on Ashtabula**CONSTRUCTION DETAILS****BAILING OR PUMPING TEST**

(specify one by circling)

Casing diameter 8" Length of casing 32'  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion \_\_\_\_\_Test rate 2 gpm Duration of test \_\_\_\_\_ hrs  
Drawdown \_\_\_\_\_ ft Date Aug 11-78  
Static level (depth to water) 25' ft  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_**WELL LOG\*****SKETCH SHOWING LOCATION**Formations: sandstone, shale,  
limestone, gravel, clay

From

To

0 ft

26 ft

clay  
gravel

26

2

2

14

14

40

water at  
40 ftLocate in reference to numbered  
state highways, street intersections, county roads, etc.

N

W

Piney Road X E

S

DRILLING FIRM McNitt well Driller DATE Aug 11-78ADDRESS Monroe Maguire Rd SIGNED Paul E McNitt

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
65 S. Front St., Rm. 815 Phone (614) 469-2646  
Columbus, Ohio 43215

465638

County Ashtabula Township Ashta. Section of Township \_\_\_\_\_

Owner Wesley Fenton Address on Rt 46

Location of property 1 mile from 46 in Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 85  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion \_\_\_\_\_

## BAILING OR PUMPING TEST

(Specify one by circling)

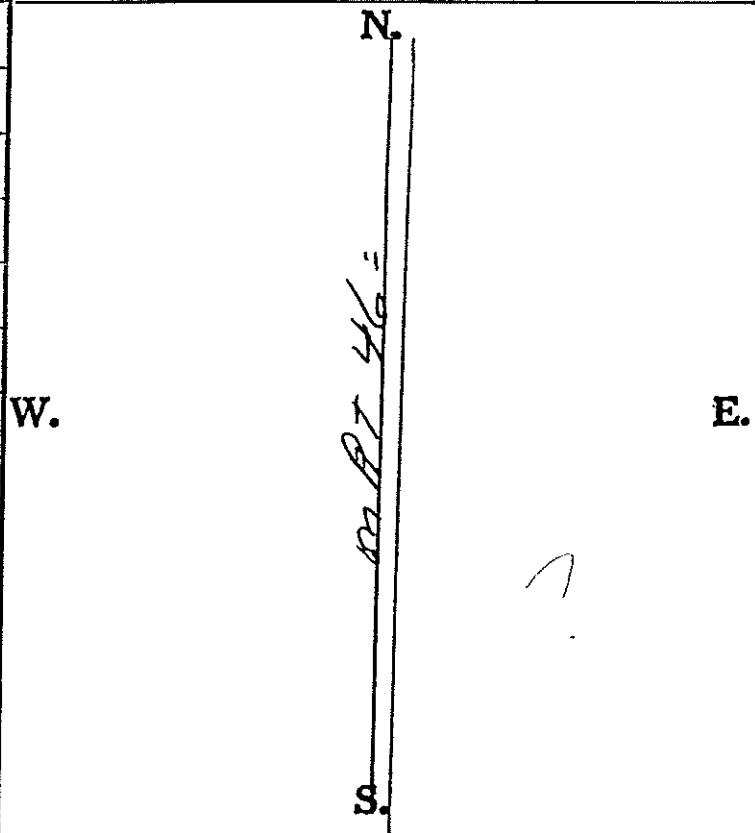
Test Rate 5 G.P.M. Duration of test \_\_\_\_\_ hrs.  
Drawdown \_\_\_\_\_ ft. Date Sept 5 - 74  
Static level-depth to water 3.5 ft ft.  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	55 Ft.
0-55 clay	5.5	17
5-72 quick sand	17	10
7-82		
Water at		
82 ft		
drilled		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



Drilling Firm Paul Mc Gill

Date Sept 5 - 74

Address on Rt 46

Signed Paul E Mc Gill

\*If additional space is needed to complete well log, use next consecutive numbered form.

# WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER  
NECESSARY—  
SELF-TRANSCRIBING

State of Ohio  
DEPARTMENT OF NATURAL RESOURCES  
Division of Water  
65 S. Front St., Rm. 815 Phone (614) 469-2646  
Columbus, Ohio 43215

No. 389982

County Ashtabula Township Ashtabula Section of Township \_\_\_\_\_  
Owner Andy Carlson Address on Jefferson Rd Rt 46  
Location of property 1 mile on Rt 46 on north side of Rd Ashtabula

## CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 54  
Type of screen \_\_\_\_\_ Length of screen \_\_\_\_\_  
Type of pump \_\_\_\_\_  
Capacity of pump \_\_\_\_\_  
Depth of pump setting \_\_\_\_\_  
Date of completion Oct 1 - 69

## BAILING OR PUMPING TEST (Specify one by circling)

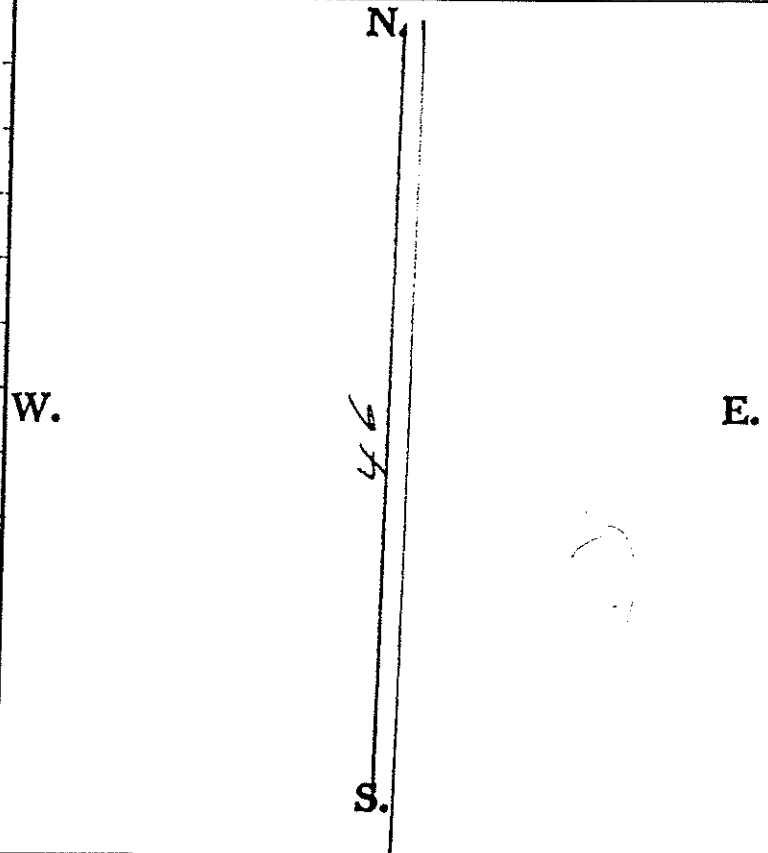
Test Rate 30 gals. per min. Duration of test \_\_\_\_\_ hrs.  
Drawdown \_\_\_\_\_ ft. Date Sept 13 - 69  
Static level-depth to water 10 ft.  
Quality (clear, cloudy, taste, odor) \_\_\_\_\_  
Pump installed by \_\_\_\_\_

## WELL LOG\*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	52 Ft.
<u>Clay</u>	<u>52</u>	<u>28</u>
<u>Shale Rock</u>	<u>28</u>	<u>80</u>
<u>Water at</u>		
<u>80 ft</u>		

## SKETCH SHOWING LOCATION

Locate in reference to numbered  
State Highways, St. Intersections, County roads, etc.



Drilling Firm Paul E. McMill  
Address East Yagerville Rd.

Date Sept 13 - 69  
Signed Paul E. McMill

\*If additional space is needed to complete well log, use next consecutive numbered form.